

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-086569

(43) Date of publication of application : 31.03.1997

(51)Int.Cl.

**B65D 81/26**

A47J 43/28

(21)Application number : 07-247126

(71)Applicant : TEREMAA JAPAN:KK

(22)Date of filing : 26.09.1995

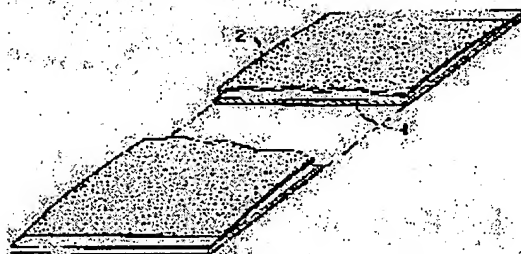
(72)Inventor : ISHIKAWA YASUMASA

(54) TRAY MAT

**(57)Abstract:**

**PROBLEM TO BE SOLVED:** To enable blood to be easily absorbed into an absorbing material, to improve sanitary and clean feel and to enhance buying desire by providing an absorbing material and a network of synthetic resin superposed on the absorbing material and thermally bonding at least a part of the network to the absorbing material.

**SOLUTION:** An absorbing material 1 having a sheet shape comprises non-woven fabric or pulp and a network 2 is made of synthetic resin such as polyethylene. The opposite short sides of the network 2 are thermally bonded to the material 1. And the network 2 has a mesh of 0.5–1mm. The cross section of mesh of the network 2 has a pot-like shape, that is, the section of mesh is narrowed toward the bottom thereof, so that a flow of blood from the material 1 to the surface of the network 2 is effectively intercepted. In this tray mat, blood leaving foods mounted on the mat is allowed to pass through numerous meshes and rapidly absorbed into the material 1. Consequently, the blood is prevented from remaining on the surface of the tray mat.



## LEGAL STATUS

[Date of request for examination]

**26.09.1995**

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

**2841282**

[Date of registration]

**23.10.1998**

[Number of appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office

**\* NOTICES \***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.\*\*\*\* shows the word which can not be translated.

3.In the drawings, any words are not translated.

---

**CLAIMS**

---

[Claim(s)]

[Claim 1] The tray matte characterized by coming to provide an absorber and gauze.

[Claim 2] The tray matte with which an absorber and the gauze made from synthetic resin which comes to carry out a laminating to this absorber are provided, and a part of aforementioned gauze is characterized by coming to carry out heat weld at least at the aforementioned absorber.

[Claim 3] The tray matte according to claim 1 or 2 which heat weld of the gauze is carried out along with a predetermined line at an absorber, and is characterized by coming to form the diffusion TWY of liquid.

[Claim 4] the claim 1 characterized by the mesh fraction of gauze having type of the shape of a cross-section earthenware mortar with the small effective-area product by the side of an absorber, and the big effective-area product of the side which places an object, - the claim 3 — a tray matte given in either

---

[Translation done.]

## \* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

DETAILED DESCRIPTION

---

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the tray matte with which a tray is covered, in order to absorb \*\*\*\* which comes out of meat or food called a fish.

[0002]

[Problem(s) to be Solved by the Invention] In the supermarket, meat, such as pork and beef, divides the cut fish sold also about the fish to a determination [ every ] tray from the first, and sells it in the status that it packed with the transparent film. With such selling gestalt, while food had been put in order by the showcase, since [ long ] time neglect is carried out in many cases, a tray tends to be covered with \*\*\*\*. Now, since appearance is not only bad, but becomes the cause which brings the bruise of food forward, it is covered with the tray matte for making a tray absorb \*\*\*\*.

[0003] The nonwoven fabric conventionally cut small partly rather than the food laid as a tray matte has been used. However, the field which touches the tray matte of food is in the status that it always got wet by \*\*\*\*, and it is not desirable. Then, a tray matte which is shown in drawing 8 was able to be considered. the hole with this detailed at the spacing of about 10-20mm -- it is the structure where the plastics film 11 in which 11a was formed was made to rival in the absorber 12 which consists of a nonwoven fabric, and meat and the fish are estranged from absorbed \*\*\*\* with this plastics film 11 Therefore, the aforementioned trouble is solved.

[0004] However, since this thing had the plastics film 11 between meat, a fish, and the absorber 12, it had the fault in which \*\*\*\* remains in a tray matte front face. It was made in order to solve such a technical problem, and it is tended to absorb \*\*\*\* an absorber, and this invention aims at the problem said [ that meat and the fish have got wet in \*\*\*\* and ] offering a few tray matte.

[0005]

[Means for Solving the Problem] It is attained by the tray matte characterized by the purpose of the above-mentioned this invention coming to provide an absorber and gauze. Especially, an absorber and the gauze made from synthetic resin which comes to carry out a laminating to this absorber are provided, and a part of aforementioned gauze is attained by the aforementioned absorber with the tray matte characterized by coming to carry out heat weld at least.

[0006] That is, in this invention, since gauze was prepared on the surface of the absorber, \*\*\*\* etc. permeates quickly and is absorbed by the absorber. And since gauze is made to separate an installation object and absorbers, such as food, and it does not contact directly, the absorbed liquid does not adhere. Therefore, while appearance is good, the fault that the fault caused by installation objects, such as food, being in contact with liquid, such as \*\*\*\*, especially a bruise are rash is canceled.

[0007] In addition, in the above-mentioned tray matte, it is desirable for heat weld of the gauze to be carried out along with a predetermined line at an absorber, and to come to form the diffusion TWY of liquid. Since a large domain distributes, the liquid absorbed by this has quick rate of absorption, and its practical use luminous efficacy of an absorber is high. Moreover, the

mesh fraction of gauze has a small effective-area product by the side of an absorber, and it is desirable that the effective-area product of the side which places an object has type of the shape of a big cross-section earthenware mortar. That is, since flowing of the liquid which demonstrates the effect with this fraction like a check valve, and goes to a gauze front face from an absorber by considering as the configuration which narrowed down the base side of a mesh fraction is intercepted, reversion of liquid seldom comes to occur.

[0008]

[Embodiments of the Invention] what shows the 1st operation gestalt of the tray matte which drawing 1 - view 3 requires for this invention -- it is -- drawing 1 -- the perspective diagram of a tray matte, and the drawing 2 -- a part of gauze -- a plan and the drawing 3 are cross sections of the mesh fraction of gauze The sheet-like absorber with which one consists of a nonwoven fabric, pulp, etc., and 2 are gauze which consisted of synthetic resin, such as polyethylene, among each drawing. Heat weld of the short side part which this gauze 2 counters is carried out at the absorber 1.

[0009] Gauze 2 has a pattern which is shown in drawing 2 , and the spacing of meshes ( drawing 2 is what was displayed in white, and a sunspot shows a mesh) is about 0.5-1mm. Moreover, the cross section of the mesh fraction of gauze 2 is a earthenware mortar-like, as shown in drawing 3 . That is, the effect like a check valve is given by considering as the configuration which narrowed down the base side (absorber 1 side) of a mesh fraction, and flowing of \*\*\*\* which goes to the front face of gauze 2 from an absorber 1 is intercepted effectively.

[0010] On the tray matte of the above-mentioned structure, \*\*\*\* which comes out of the laid food is quickly absorbed by the absorber 1 through the countless mesh formed in gauze 2. Therefore, \*\*\*\* does not remain in a tray matte front face. And since gauze 2 exists between an absorber 1 and food, \*\*\*\* absorbed at once returns and it does not adhere to food.

Furthermore, since structure is easy, it can provide cheaply.

[0011] In addition, if it is in the tray matte of this 1st operation gestalt, a pulp sheet etc. can be made to be able to intervene between an absorber 1 and gauze 2, and the diffusibility of \*\*\*\* can also be raised. The tray matte of this invention is not limited to the above-mentioned 1st operation gestalt. For example, along with a predetermined line, heat weld of the gauze 2 may be carried out at an absorber 1, the diffusion TWY of \*\*\*\* may be formed, and the example is shown in drawing 4 - view 7 (the 2-5th operations gestalt).

[0012] The thing of the 2nd operation gestalt carries out heat weld of the gauze 2 with the line in alignment with the longitudinal direction, and forms diffusion TWY 3. The thing of the 3rd operation gestalt carries out heat weld of the gauze 2 with the line which met in the orientation of a short hand, and forms many diffusion TWYs 4. The thing of the 4th operation gestalt carries out heat weld of the gauze 2 along with a \*\*\*\*-like line, and forms diffusion TWY 5.

[0013] The thing of the 5th operation gestalt carries out heat weld of the gauze 2 aslant at intervals of predetermined, and forms grid-like diffusion TWY 6. However, when the thing of the 2-5th operations gestalt in which the above-mentioned diffusion TWY was formed is compared, the thing of the 2-4th operations gestalt which does not have a diffusion TWY in the edge is desirable.

[0014]

[Effect of the Invention] It is tended to absorb \*\*\*\* an absorber, and there are few problems said [ that meat and the fish have got wet in \*\*\*\* and ], and they are rich in sanitary and feeling of purity, and purchase volition increases.

---

[Translation done.]

\* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

TECHNICAL FIELD

---

[The technical field to which invention belongs] this invention relates to the tray mat with which a tray is covered, in order to absorb \*\*\*\* which comes out of meat or food called a fish.

---

[Translation done.]

**\* NOTICES \***

Japan Patent Office is not responsible for any  
damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

---

**EFFECT OF THE INVENTION**

---

[Effect of the Invention] It is tended to absorb \*\*\*\* an absorber, and there are few problems said [ that meat and the fish have got wet in \*\*\*\* and ], and they are rich in sanitary and feeling of purity, and purchase volition increases.

---

[Translation done.]



\* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

DESCRIPTION OF DRAWINGS

---

[Brief Description of the Drawings]

[Drawing 1] It is the perspective diagram of a tray matte (the 1st operation gestalt).

[Drawing 2] a part of gauze -- it is a plan

[Drawing 3] It is the cross section of the mesh fraction of gauze.

[Drawing 4] a part of tray matte (the 2nd operation gestalt) -- it is a plan

[Drawing 5] a part of tray matte (the 3rd operation gestalt) -- it is a plan

[Drawing 6] a part of tray matte (the 4th operation gestalt) -- it is a plan

[Drawing 7] a part of tray matte (the 5th operation gestalt) -- it is a plan

[Drawing 8] It is the perspective diagram of the conventional tray matte.

[Description of Notations]

1 Absorber

2 Gauze

3-6 Diffusion TWY

---

[Translation done.]

## \* NOTICES \*

Japan Patent Office is not responsible for any damages caused by the use of this translation.

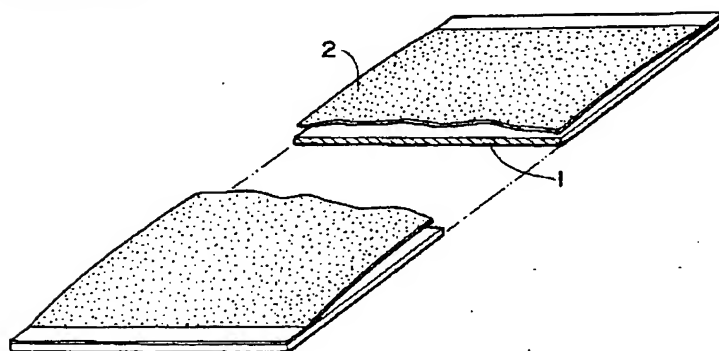
1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.\*\*\* shows the word which can not be translated.

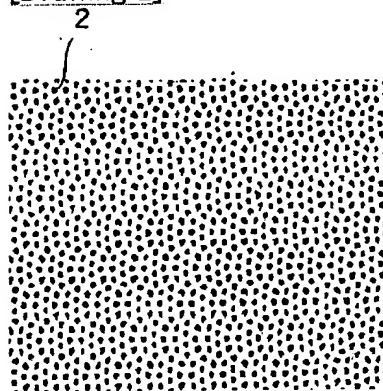
3.In the drawings, any words are not translated.

## DRAWINGS

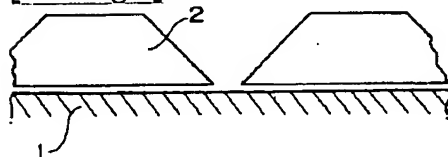
[Drawing 1]



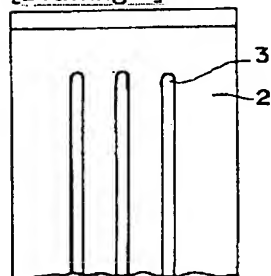
[Drawing 2]



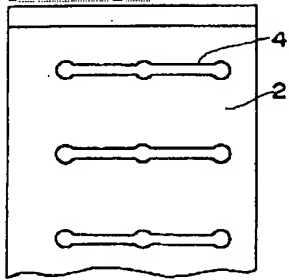
[Drawing 3]



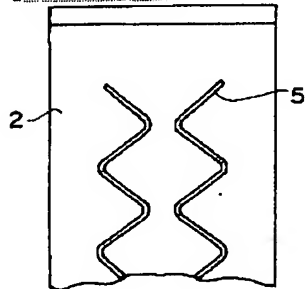
[Drawing 4]



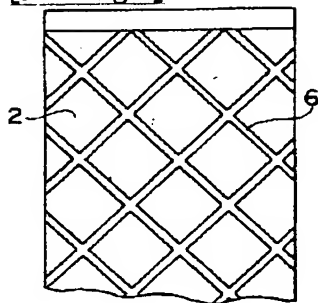
[Drawing 5]



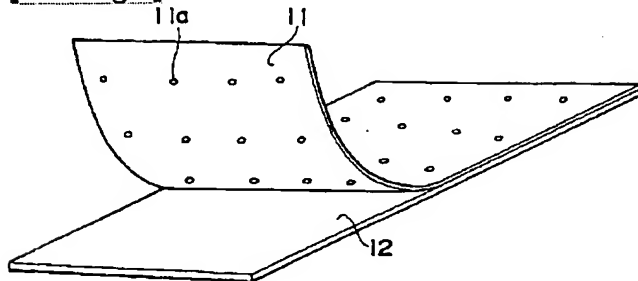
[Drawing 6]



[Drawing 7]



[Drawing 8]



---

[Translation done.]